

# 6" Abrasive Belt Finishing Machine (Model 31-552)



6" Abrasive Belt Finishing Machine shown with optional enclosed steel stand and electricals.

PART NO. 406-03-651-0017 (0110)  
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# GENERAL SAFETY RULES

Woodworking can be dangerous if safe and proper operating procedures are not followed. As with all machinery, there are certain hazards involved with the operation of the product. Using the machine with respect and caution will considerably lessen the possibility of personal injury. However, if normal safety precautions are overlooked or ignored, personal injury to the operator may result. Safety equipment such as guards, push sticks, hold-downs, featherboards, goggles, dust masks and hearing protection can reduce your potential for injury. But even the best guard won't make up for poor judgment, carelessness or inattention. Always use common sense and exercise caution in the workshop. If a procedure feels dangerous, don't try it. Figure out an alternative procedure that feels safer. **REMEMBER:** Your personal safety is your responsibility.

This machine was designed for certain applications only. Delta Machinery strongly recommends that this machine not be modified and/or used for any application other than that for which it was designed. If you have any questions relative to a particular application, **DO NOT** use the machine until you have first contacted Delta to determine if it can or should be performed on the product.

## Technical Service Manager

Delta Machinery  
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## WARNING: FAILURE TO FOLLOW THESE RULES MAY RESULT IN SERIOUS PERSONAL INJURY

1. **FOR YOUR OWN SAFETY, READ INSTRUCTION MANUAL BEFORE OPERATING THE TOOL.** Learn the tool's application and limitations as well as the specific hazards peculiar to it.

2. **KEEP GUARDS IN PLACE** and in working order.

3. **ALWAYS WEAR EYE PROTECTION.** Wear safety glasses. Everyday eyeglasses only have impact resistant lenses; they are not safety glasses. Also use face or dust mask if cutting operation is dusty. These safety glasses must conform to ANSI Z87.1 requirements. **NOTE:** Approved glasses have Z87 printed or stamped on them.

4. **REMOVE ADJUSTING KEYS AND WRENCHES.** Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it "on".

5. **KEEP WORK AREA CLEAN.** Cluttered areas and benches invite accidents.

6. **DON'T USE IN DANGEROUS ENVIRONMENT.** Don't use power tools in damp or wet locations, or expose them to rain. Keep work area well-lighted.

7. **KEEP CHILDREN AND VISITORS AWAY.** All children and visitors should be kept a safe distance from work area.

8. **MAKE WORKSHOP CHILDPROOF** – with padlocks, master switches, or by removing starter keys.

9. **DON'T FORCE TOOL.** It will do the job better and be safer at the rate for which it was designed.

10. **USE RIGHT TOOL.** Don't force tool or attachment to do a job for which it was not designed.

11. **WEAR PROPER APPAREL.** No loose clothing, gloves, neckties, rings, bracelets, or other jewelry to get caught in moving parts. Non-slip footwear is recommended. Wear protective hair covering to contain long hair.

12. **SECURE WORK.** Use clamps or a vise to hold work when practical. It's safer than using your hand and frees both hands to operate tool.

13. **DON'T OVERREACH.** Keep proper footing and balance at all times.

14. **MAINTAIN TOOLS IN TOP CONDITION.** Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.

15. **DISCONNECT TOOLS** before servicing and when changing accessories such as blades, bits, cutters, etc.

16. **USE RECOMMENDED ACCESSORIES.** The use of accessories and attachments not recommended by Delta may cause hazards or risk of injury to persons.

17. **REDUCE THE RISK OF UNINTENTIONAL STARTING.** Make sure switch is in "OFF" position before plugging in power cord. In the event of a power failure, move switch to the "OFF" position.

18. **NEVER STAND ON TOOL.** Serious injury could occur if the tool is tipped or if the cutting tool is accidentally contacted.

19. **CHECK DAMAGED PARTS.** Before further use of the tool, a guard or other part that is damaged should be carefully checked to ensure that it will operate properly and perform its intended function – check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced.


20. **DIRECTION OF FEED.** Feed work into a blade or cutter against the direction of rotation of the blade or cutter only.

21. **NEVER LEAVE TOOL RUNNING UNATTENDED. TURN POWER OFF.** Don't leave tool until it comes to a complete stop.

22. **STAY ALERT, WATCH WHAT YOU ARE DOING, AND USE COMMON SENSE WHEN OPERATING A POWER TOOL. DO NOT USE TOOL WHILE TIRED OR UNDER THE INFLUENCE OF DRUGS, ALCOHOL, OR MEDICATION.** A moment of inattention while operating power tools may result in serious personal injury.

23. **MAKE SURE TOOL IS DISCONNECTED FROM POWER SUPPLY** while motor is being mounted, connected or reconnected.

24. **THE DUST GENERATED** by certain woods and wood products can be injurious to your health. Always operate machinery in well ventilated areas and provide for proper dust removal. Use wood dust collection systems whenever possible.

25.  **WARNING: SOME DUST CREATED BY POWER SANDING, SAWING, GRINDING, DRILLING, AND OTHER CONSTRUCTION ACTIVITIES** contains chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- lead from lead-based paints,
- crystalline silica from bricks and cement and other masonry products, and
- arsenic and chromium from chemically-treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

## SAVE THESE INSTRUCTIONS.

Refer to them often and use them to instruct others.

# ADDITIONAL SAFETY RULES FOR ABRASIVE BELT FINISHING MACHINES



**WARNING: FAILURE TO FOLLOW THESE RULES MAY RESULT IN SERIOUS PERSONAL INJURY**

1. **DO NOT OPERATE THIS MACHINE UNTIL** it is **assembled** and **installed** according to the instructions.
2. **OBTAIN ADVICE** from your supervisor, instructor, or another qualified person if you are not familiar with the operation of this machine.
3. **FOLLOW ALL WIRING CODES** and recommended electrical connections.
4. **COVER POWER TAKE-OFF SHAFT** when not using accessories. Unguarded rotating shafts can create an **entanglement hazard** which can result in injury.
5. **USE A DUST COLLECTION SYSTEM** with this machine.
6. **THIS MACHINE CAN BE USED FOR PROCESSING WOOD OR METAL PRODUCTS:** However, combining both wood dust and metal filings can create a fire hazard. In addition combining aluminum dust with metal dust can create a fire hazard. Before processing different types of materials, such as wood, steel, and aluminum, clean machine and dust collector to avoid a fire hazard. **DO NOT** sand or polish magnesium. It could catch on fire.
7. **CHECK THE TABLE BELT TRACKING** to prevent belt run-off.
8. **CHECK BELTS FOR WEAR** and for **tension**.
9. **CLEAR THE SANDING AREA and infeed/outfeed tables of all objects** (tools, scrap pieces, etc.) prior to starting machine.
10. **DO NOT** sand pieces of material that are shorter than 7" in length or thinner than 1/32".
11. **PROVIDE ADDITIONAL SUPPORT** at table height when sanding large work pieces.
12. **SUPPORT ALL SANDING WORKPIECES** with a table or additional support at table height. Curved work on an outer sanding drum is the only exception.
13. **PREVENT THE WORKPIECE FROM CONTACTING THE SANDING BELT** before starting the machine.
14. **AVOID AWKWARD HAND POSITIONS.** A sudden slip could cause a hand to contact the sanding belt.
15. **NEVER WEAR GLOVES** or hold the work with a rag when sanding.
16. **HOLD THE WORK FIRMLY** when sanding.
17. **SAND** with the grain of the wood
18. **FEED WORK** against the drum rotation.
19. **NEVER** perform layout, assembly, or set-up work on the tables when the machine is operating.
20. **DISCONNECT THE MACHINE** from the power source before installing or removing accessories, before adjusting or changing set-ups, or when making repairs.
21. **DISCONNECT THE MACHINE** from the power source, and clean the table/work area before leaving the machine. **LOCK THE SWITCH IN THE "OFF" POSITION** to prevent unauthorized use.
22. **ADDITIONAL INFORMATION** regarding the safe and proper operation of this machine is available from the Power Tool Institute, 1300 Summer Avenue, Cleveland, OH 44115-2851. Information is also available from the National Safety Council, 1121 Spring Lake Drive, Itasca, IL 60143-3201. Please refer to the American National Standards Institute ANSI 01.1 Safety Requirements for Woodworking Machines and the U.S. Department of Labor OSHA 1910.213 Regulations.

**SAVE THESE INSTRUCTIONS.  
Refer to them often  
and use them to instruct others.**

# POWER CONNECTIONS

**IMPORTANT:** Make sure the electrical characteristics are the same between the motor nameplate and the power source and make sure the power circuit the machine will be used on is properly fused and that wire size is correct.

**IN ALL CASES, MAKE SURE THE RECEPTACLE IN QUESTION IS PROPERLY GROUNDED.**

 **WARNING: DO NOT EXPOSE THE MACHINE TO RAIN OR OPERATE THE MACHINE IN DAMP LOCATIONS.**

## GROUNDING INSTRUCTIONS

 **WARNING: THIS MACHINE MUST BE GROUNDED WHILE IN USE TO PROTECT THE OPERATOR FROM ELECTRIC SHOCK.**

### SINGLE PHASE INSTALLATION

If the motor on your machine is wired for 115 volt, single phase, the power cord is equipped with a plug that has two flat, parallel current-carrying prongs and one longer round or "U"-shaped, ground prong Which requires a mating 3-conductor grounded type receptacle, as shown in Fig. A.

If the motor on your machine is wired for 230 Volt, single phase, the power cord is equipped with a plug that has two flat, current-carrying prongs in tandem, and one round or "U" shaped longer ground prong. This is used only with the proper mating 3-conductor grounding type receptacle, as shown in Fig. B.


When the three-prong plug on your machine is plugged into a grounded 3-conductor receptacle, the long ground prong on the plug contacts first so the machine is properly grounded before electricity reaches it.

### THREE PHASE INSTALLATION

If the motor on your machine is wired for 200V, 230V, or 460V, three phase, the necessary wiring from the starter to the power should be completed by a qualified electrician.

Permanently connected machines:

This machine should be connected to a grounded metal permanent wiring system; or to a system having a equipment-grounding conductor. These connections should be made by a qualified electrician.

 **WARNING: IN ALL CASES, MAKE CERTAIN THE RECEPTACLE IN QUESTION IS PROPERLY GROUNDED. IF YOU ARE NOT SURE HAVE A QUALIFIED ELECTRICIAN CHECK THE RECEPTACLE.**

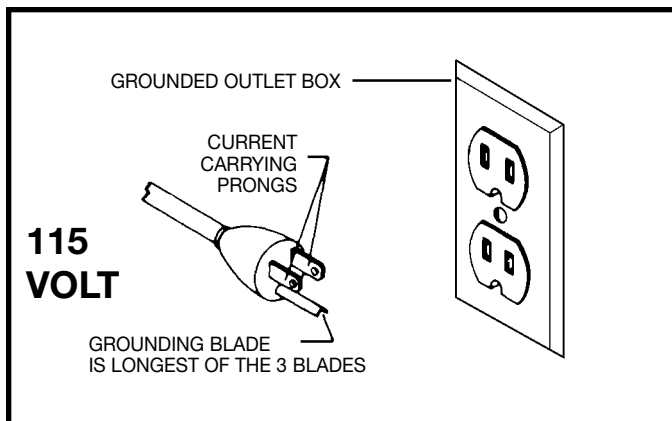


Fig. A

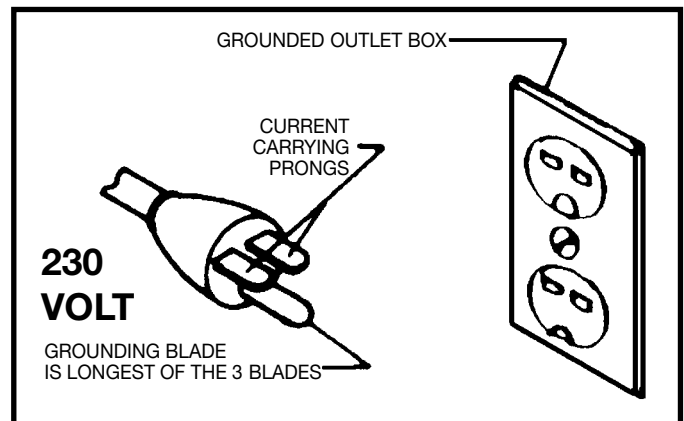


Fig. B

# EXTENSION CORDS

Use proper extension cords. Make sure your extension cord is in good condition and is a 3-wire extension cord which has a 3-prong grounding type plug and matching receptacle which will accept the machine's plug. When using an extension cord, be sure to use one heavy enough to carry the current of the machine. An undersized cord will cause a drop in line voltage, resulting in loss of power and overheating. Fig. D, shows the correct gauge to use depending on the cord length. If in doubt, use the next heavier gauge. The smaller the gauge number, the heavier the cord.

<b>MINIMUM GAUGE EXTENSION CORD</b>			
RECOMMENDED SIZES FOR USE WITH STATIONARY ELECTRIC MACHINES			
Ampere Rating	Volts	Total Length of Cord in Feet	Gauge of Extension Cord
0-6	115	up to 25	18 AWG
0-6	115	25-50	16 AWG
0-6	115	50-100	16 AWG
0-6	115	100-150	14 AWG
6-10	115	up to 25	18 AWG
6-10	115	25-50	16 AWG
6-10	115	50-100	14 AWG
6-10	115	100-150	12 AWG
10-12	115	up to 25	16 AWG
10-12	115	25-50	16 AWG
10-12	115	50-100	14 AWG
10-12	115	100-150	12 AWG
12-16	115	up to 25	14 AWG
12-16	115	25-50	12 AWG
12-16	115	GREATER THAN 50 FEET NOT RECOMMENDED	

Fig. D

<b>MINIMUM GAUGE EXTENSION CORD</b>			
RECOMMENDED SIZES FOR USE WITH STATIONARY ELECTRIC MACHINES			
Ampere Rating	Volts	Total Length of Cord in Feet	Gauge of Extension Cord
0-6	230	up to 50	18 AWG
0-6	230	50-100	16 AWG
0-6	230	100-200	16 AWG
0-6	230	200-300	14 AWG
6-10	230	up to 50	18 AWG
6-10	230	50-100	16 AWG
6-10	230	100-200	14 AWG
6-10	230	200-300	12 AWG
10-12	230	up to 50	16 AWG
10-12	230	50-100	16 AWG
10-12	230	100-200	14 AWG
10-12	230	200-300	12 AWG
12-16	230	up to 50	14 AWG
12-16	230	50-100	12 AWG
12-16	230	GREATER THAN 100 FEET NOT RECOMMENDED	

Fig. D

# OPERATING INSTRUCTIONS

## FOREWORD

The Delta 6" Abrasive Belt Finishing Machine provides fine finishes fast. The 6" abrasive belt operates vertically, horizontally or any angle in between. The support table on the 6" Abrasive Belt Finishing Machine tilts 45° out and 20° in for bevel operations.

## UNPACKING AND CLEANING

Carefully unpack the machine and all loose items from the shipping container(s). Remove the protective coating from all unpainted surfaces. This coating may be removed with a soft cloth moistened with kerosene (do not use acetone, gasoline or lacquer thinner for this purpose). After cleaning, cover the unpainted surfaces with a good quality household floor paste wax.

# ASSEMBLY

## STAND AND ELECTRICALS

If you purchased your machine with the optional steel stand and electricals, the stand is shipped as shown in Fig. 2. The switch (A) Fig. 2 and motor (B) Fig. 3 are completely assembled to the stand and the necessary wiring from the motor to the switch has been completed.



Fig. 2



Fig. 3

## ASSEMBLING MACHINE TO STAND

Place the machine on the stand with the arbor pulley over the opening (A) Fig. 4, on the top of the stand. The drive belt is shipped on the arbor pulley of the machine and must be inserted down through the opening (A). The disc end of the machine is to be positioned on the same end of the stand that the switch (B) Fig. 4, is located. Line up the four holes on the base of the machine with the four holes (C) in the top of the stand. Place a 3/8" flat washer on a 3/8"-16x3" hex head screw (D) Fig. 5, (two are shown), insert screw through the hole in the base of the machine and the hole in the top of the stand. Thread a 3/8"-16 hex nut onto the screw and tighten securely. Repeat this process for the three remaining holes.

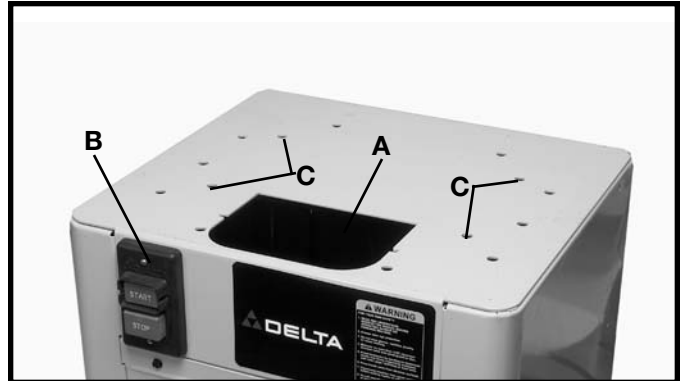


Fig. 4

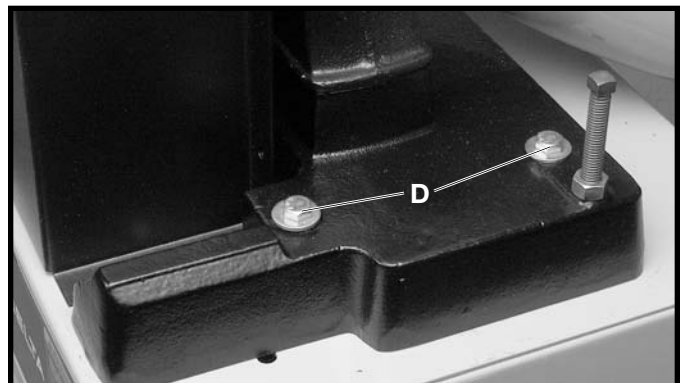


Fig. 5

# ALIGNING PULLEYS, ASSEMBLING BELT AND ADJUSTING BELT TENSION

## DISCONNECT MACHINE FROM POWER SOURCE

Using a straight edge (A) Fig. 6, make certain the motor pulley (B) is aligned with the arbor pulley. If necessary, the motor pulley (B) can be adjusted on the motor shaft by loosening set screw (C) and moving the motor pulley (B) in or out as needed. The motor (E) can also be moved in or out along the mounting bars (F) by loosening the four mounting screws, two of which are shown at (G) and moving the motor (E).

Assemble the drive belt (H) Fig. 7 to the arbor pulley and motor pulley (B). Adjust for proper belt tension by raising or lowering motor (E) on motor mounting posts (J) (one is shown), by loosening four mounting nuts, two of which are shown at (K). If necessary, the motor mounting bars (F) can be repositioned on two mounting posts (J). **NOTE: MAKE CERTAIN BOTH PULLEYS ARE KEPT IN ALIGNMENT WHEN ADJUSTING BELT TENSION.** Correct belt tension is obtained when there is approximately one inch deflection in the center span of the belt using light finger pressure. **IMPORTANT: BE CERTAIN TO TIGHTEN ALL MOUNTING HARDWARE ONCE FINAL ADJUSTMENTS ARE MADE.**

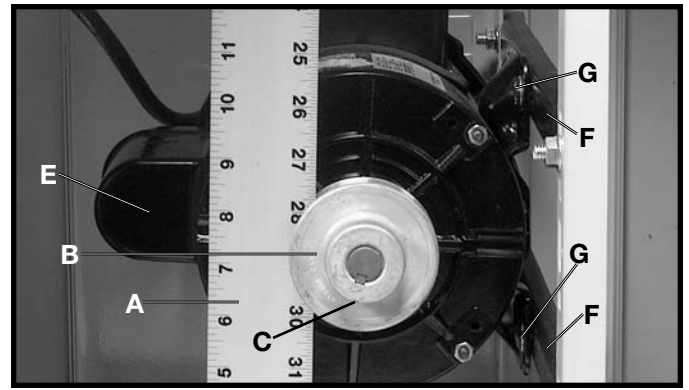


Fig. 6

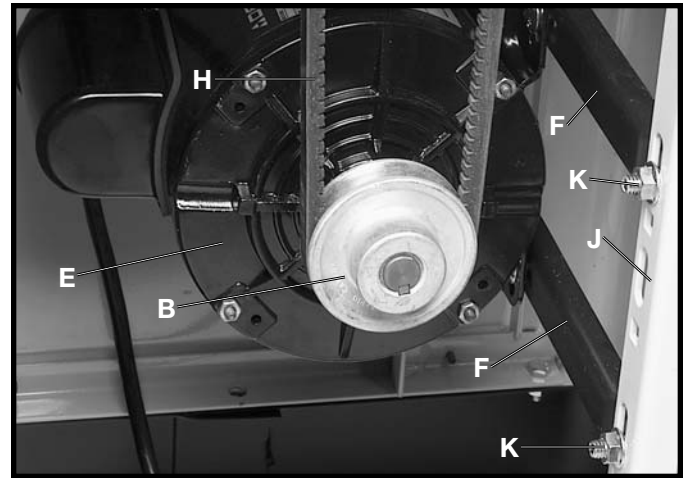


Fig. 7

## ASSEMBLING BELT GUARD

Assemble the belt guard (A) to the stand, as shown in Fig. 8. Align the holes in the belt guard with the holes on the machine. Place 1/4" flat washer on a 1/4-20-1/2" round head screw, insert screw through hole in belt guard and hole in machine. Thread a 1/4-20 hex nut onto screw and tighten securely. Repeat this process for the remaining hole.

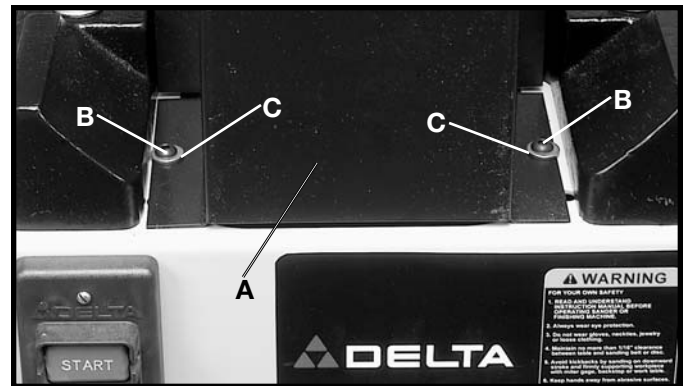


Fig. 8

# OPERATING CONTROLS AND ADJUSTMENTS

## STARTING AND STOPPING THE ABRASIVE FINISHING MACHINE

To start the machine, push “ON” button (A) Fig. 10. To stop the machine, push “OFF” button (B).

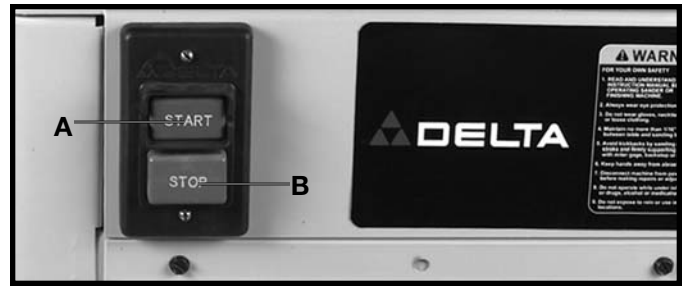


Fig. 10

## LOCKING SWITCH IN THE “OFF” POSITION

**IMPORTANT:** When the machine is not in use, the switch should be locked in the OFF position using a padlock (A) Fig. 11, with a 3/16" diameter shackle to prevent unauthorized use.

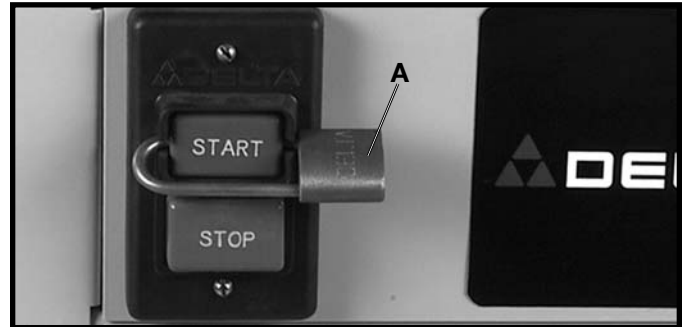


Fig. 11

## ADJUSTING SANDING BELT TENSION AND TRACKING

**YOUR MACHINE IS SHIPPED WITHOUT BELT TENSION APPLIED TO THE SANDING BELT. BEFORE OPERATING THE MACHINE IT IS VERY IMPORTANT THAT THE SANDING BELT IS PROPERLY ADJUSTED FOR CORRECT BELT TENSION AND IS TRACKING PROPERLY, AS FOLLOWS:**

**DISCONNECT MACHINE FROM POWER SOURCE.**

1. Remove lock knob and washer (A) Fig. 12. Remove top cover (B).
2. Turn the belt tension handle (C) Fig. 13, clockwise to increase belt tension. Correct tension is determined by two things:

- (1) The belt should be flat on the platen.
- (2) The belt should be sufficiently tensioned to prevent slipping on very heavy work. For ordinary work, a tension just sufficient to take the curl out of the belt is recommended.

3. Loosen tracking lock knob (D) Fig. 14, and while rotating the belt (F) by hand, tighten or loosen tracking knob (E) until the belt is running true on the pulleys.

4. Then jog the machine on and off to check further if the belt is tracking properly. If the belt is leading to one side or the other, very gently turn the tracking knob (E) Fig. 14, clockwise to move the belt toward the adjusting screw and counterclockwise to move the belt away from the adjusting screw while jogging the machine on and off.

5. A final adjustment can be made with the motor running. **THIS ADJUSTMENT IS USUALLY VERY SLIGHT.** After the belt is tracking properly, tighten the lock knob (D) Fig. 14, being careful the adjusting screw (E) does not turn.

6. Replace top cover (B) Fig. 12.

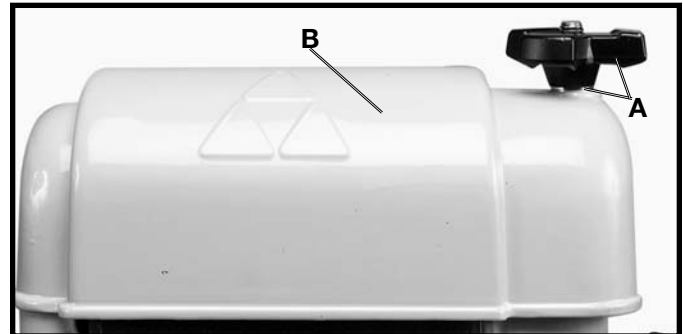


Fig. 12

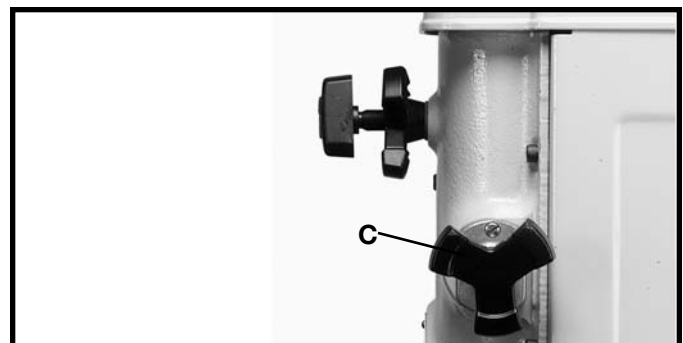


Fig. 13

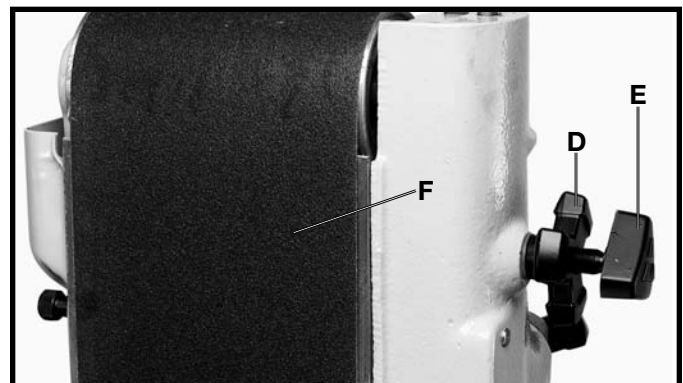


Fig. 14



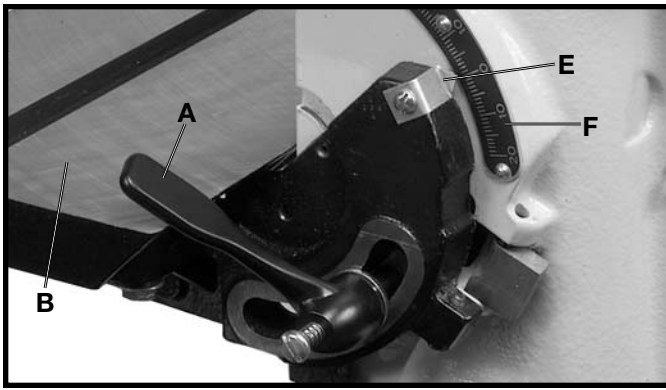


Fig. 15

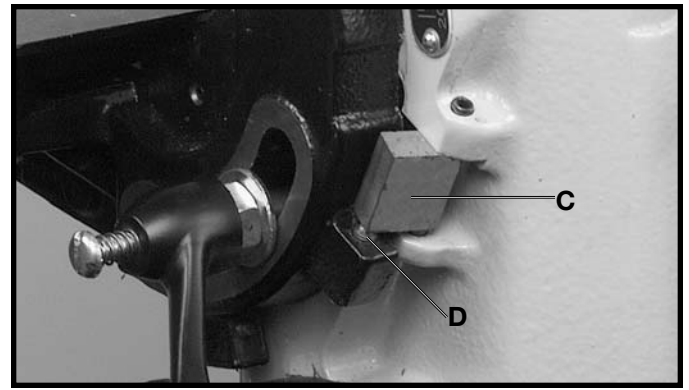


Fig. 16

## ADJUSTING TABLE

### DISCONNECT MACHINE FROM POWER SOURCE.

To tilt the table, loosen the table tilting handle (A) Fig. 15, move the table to the desired angle, and tighten the table tilting handle. The table tilting handle can be repositioned by pulling out the handle and repositioning it on the hex nut located underneath the handle. Positive table stops are provided at 90° (A) Fig. 17, and 45° (B) Fig. 17. To adjust the stops, proceed as follows:

1. Loosen the table locking handle (A) Fig. 15, and lift the table up to approximately 10 degrees.
2. Flip out stop bracket (C) Fig. 16, and lower the table until the adjustable screw (D) contacts stop bracket (C).
3. Place a square on the table with one end of the square against the platen.
4. Turn the adjusting screw (D) Fig. 16 until the table is at 90° to the platen and adjust the pointer (E) Fig. 15, to the 0° mark on the angle-of-tilt scale (F) Fig. 15.
5. The same procedure is followed when adjusting the table to stop at the 45° position as shown in Fig. 17.

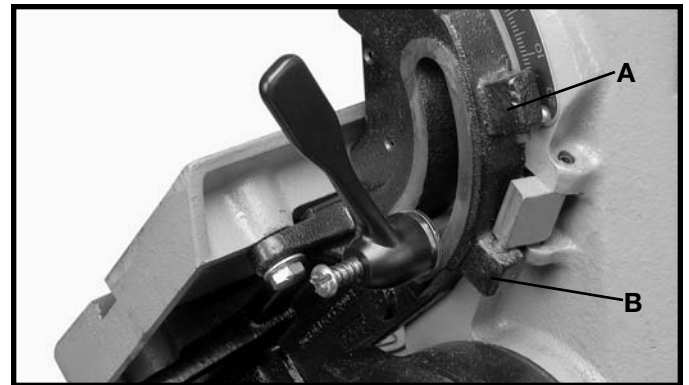


Fig. 17

## ADJUSTING POSITION OF SANDING ARM

### DISCONNECT MACHINE FROM POWER SOURCE.

The sanding arm can be positioned in the vertical or horizontal position, or at any desired angle in between as follows:

1. Loosen two bolts (A) Fig. 18, move the sanding arm to the desired position, and tighten the two bolts.

**CAUTION: THE SANDING ARM SHOULD NEVER BE REPOSITIONED WHILE THE MACHINE IS RUNNING.**

2. When moving the sanding arm to the horizontal position, the arm will contact the stop (B) as shown in Fig. 19.

**IMPORTANT: BEFORE STARTING THE MACHINE AFTER REPOSITIONING THE SANDING ARM ALWAYS CHECK THE TRACKING OF THE BELT.**

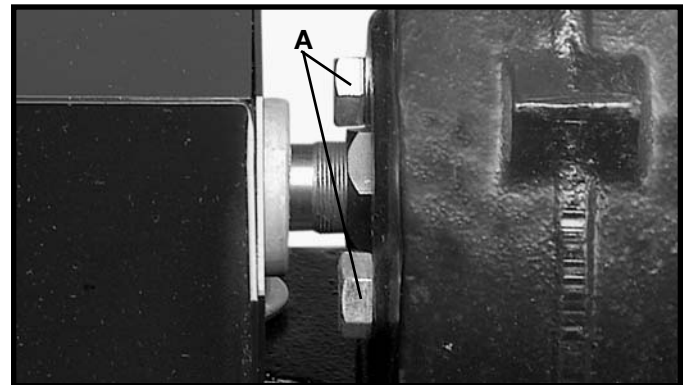


Fig. 18

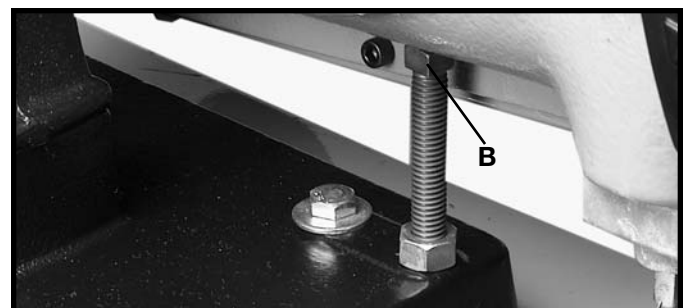


Fig. 19

# INSTALLING OR REMOVING ABRASIVE BELT

Your machine uses a 6"x48" belt. To install or remove the belt, proceed as follows:

## DISCONNECT MACHINE FROM POWER SOURCE.

1. Remove the idler drum guard (A) and side guard (B) Fig. 20.
2. Turn the belt tension handle counterclockwise to reduce belt tension to a minimum. **NOTE:** It may be necessary when reducing belt tension that downward pressure be applied on the idler pulley (C) Fig. 21.
3. The sanding belt can then be easily slipped off or onto the drums, as shown in Fig. 21.

**IMPORTANT:** Lapless sanding belts can be run in either direction. Lapped belts should be installed so that the work will run OFF the lapped portion of the belt and not into the edge of the lap. Most sanding belts have a directional arrow on the inside of the belt to show the direction of rotation.

**AFTER INSTALLING A NEW BELT, THE BELT MUST BE ADJUSTED FOR PROPER TENSION AND TRACKING.**

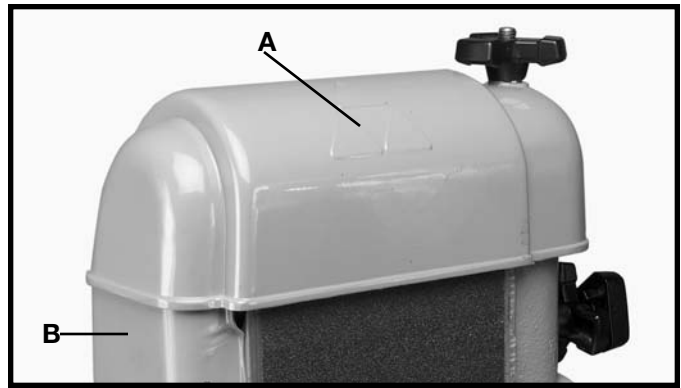


Fig. 20

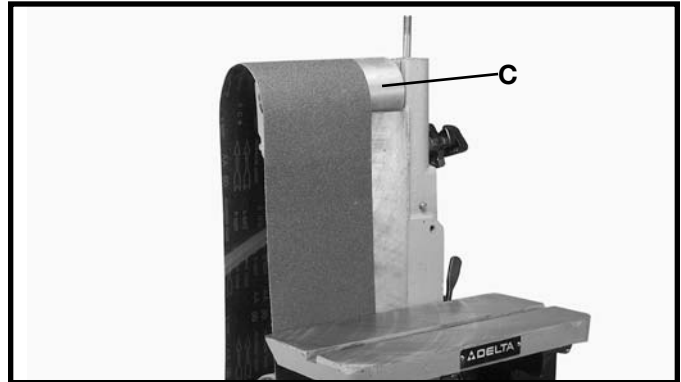


Fig. 21

# ADJUSTING THE PLATEN

The platen (A) Fig. 24, is set at the factory 1/32 of an inch higher than the crown of the drums (B). This allows the belt, when properly tensioned, to lay flat on the platen and eliminate stretching and bulging which might occur if the platen is not at the right height.

When using the machine with a loose belt for "strapping," the platen is removed and replaced as follows:

## DISCONNECT MACHINE FROM POWER SOURCE.

1. Remove the side cover (B) Fig. 20 and top idler drum guard (A) Fig. 20.
2. Remove the three screws (C) Fig. 26, that attach the platen to the machine and remove the platen.
3. When replacing the platen, attach it to the machine with the three screws (C) Fig. 26. Do not tighten the three screws.
4. Using a straight edge (D) adjust the platen (A) Fig. 26, so it is 1/32" higher than the crown of the drums (B), and tighten the three screws (C).

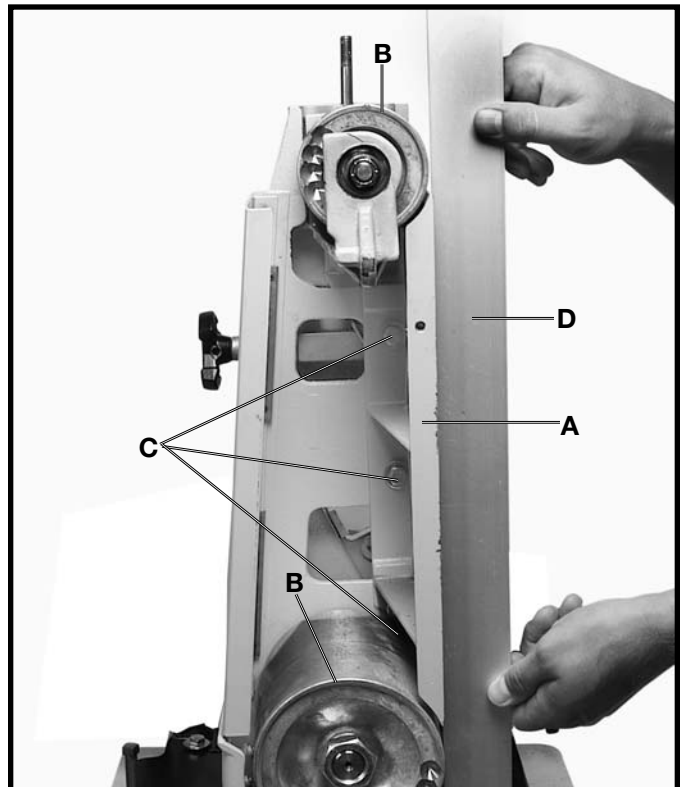


Fig. 26

# ABRASIVE BELTS - THEIR SELECTION AND USE

Delta supplies a wide range of belts for use on your Finishing Machine. These belts are recommended for a wide range of work on wood, metals, plastics and other materials. However, when a large amount of production work of one kind is to be done, it is best to call in a coated abrasive specialist for specific recommendations.

All materials may be worked on a dry belt. But for professional quality or for production work a low melting point grease should be used for cooler cutting, better finish, and for longer belt life. Even coarse belts will "load" when grinding aluminum dry, and so a lubricant should always be used for this material. To a varying degree, this is true of other non-ferrous metals like soft brass and zinc.

A grease stick is often applied to the belt to prevent "loading" of the belt on softer materials especially aluminum. When grinding steel or some kinds of plastic, the grease stick is often used to prevent over-heating of the work piece. Many times a single belt is used for both stock removal and for finish, just by lubricating one half of the belt with light grease for stock removal and the other side or half of the belt with a heavy grease for polishing to bring out a good finish. This can be done only when the parts are very small and need not be moved across the face of the belt.


When an abrasive belt smaller than 6" is desired, the 6" belt can be split. This can be done by turning the belt inside out and with a knife or other sharp instrument cut a slot in the belt at the desired width. Then proceed to tear the belt.

**CAUTION: ONLY TEAR THE BELT A FEW INCHES AT A TIME ONE WAY THEN REVERSE THE TEARING ACTION. THIS METHOD WILL REDUCE THE TENDENCY OF THE BELT TO UNRAVEL.**

For certain applications, a mist coolant attachment (not supplied by Delta) will be helpful. If the use of a mist coolant causes the Abrasive Belt to slip on the lower drive pulley, this can be corrected by using a "tire" which can be homemade by wrapping the pulley with a piece of coated abrasive belt. The grit is, of course, turned to the outside and cement should be used sparingly to avoid lumps under the "tire."

## ACCESSORIES

A complete line of accessories is available from your Delta Supplier, Porter-Cable • Delta Factory Service Centers, and Delta Authorized Service Stations. Please visit our Web Site [www.deltamachinery.com](http://www.deltamachinery.com) for a catalog or for the name of your nearest supplier.

 **WARNING:** Since accessories other than those offered by Delta have not been tested with this product, use of such accessories could be hazardous. For safest operation, only Delta recommended accessories should be used with this product.



## PARTS, SERVICE OR WARRANTY ASSISTANCE

All Delta Machines and accessories are manufactured to high quality standards and are serviced by a network of Porter-Cable • Delta Factory Service Centers and Delta Authorized Service Stations. To obtain additional information regarding your Delta quality product or to obtain parts, service, warranty assistance, or the location of the nearest service outlet, please call 1-800-223-7278 (In Canada call 1-800-463-3582).



### Two Year Limited Warranty

Delta will repair or replace, at its expense and at its option, any Delta machine, machine part, or machine accessory which in normal use has proven to be defective in workmanship or material, provided that the customer returns the product prepaid to a Delta factory service center or authorized service station with proof of purchase of the product within two years and provides Delta with reasonable opportunity to verify the alleged defect by inspection. Delta may require that electric motors be returned prepaid to a motor manufacturer's authorized station for inspection and repair or replacement. Delta will not be responsible for any asserted defect which has resulted from normal wear, misuse, abuse or repair or alteration made or specifically authorized by anyone other than an authorized Delta service facility or representative. Under no circumstances will Delta be liable for incidental or consequential damages resulting from defective products. This warranty is Delta's sole warranty and sets forth the customer's exclusive remedy, with respect to defective products; all other warranties, express or implied, whether of merchantability, fitness for purpose, or otherwise, are expressly disclaimed by Delta.

## PORTER-CABLE • DELTA SERVICE CENTERS (CENTROS DE SERVICIO DE PORTER-CABLE • DELTA)

Parts and Repair Service for Porter-Cable • Delta Power Tools are Available at These Locations  
(Obtenga Refaccion de Partes o Servicio para su Herramienta en los Sigüientes Centros de Porter-Cable • Delta)

### ARIZONA

Tempe 85282 (Phoenix)  
2400 West Southern Avenue  
Suite 105  
Phone: (602) 437-1200  
Fax: (602) 437-2200

### CALIFORNIA

Ontario 91761 (Los Angeles)  
3949A East Guasti Road  
Phone: (909) 390-5555  
Fax: (909) 390-5554  
  
San Leandro 94577 (Oakland)  
3039 Teagarden Street  
Phone: (510) 357-9762  
Fax: (510) 357-7939

### FLORIDA

Davie 33314 (Miami)  
4342 South State Rd. 7 (441)  
Unit #107  
Phone: (954) 321-6635  
Fax: (954) 321-6638  
  
Tampa 33609  
4538 W. Kennedy Boulevard  
Phone: (813) 877-9585  
Fax: (813) 289-7948

### GEORGIA

Forest Park 30297 (Atlanta)  
5442 Frontage Road,  
Suite 112  
Phone: (404) 608-0006  
Fax: (404) 608-1123

### ILLINOIS

Addison 60101 (Chicago)  
311 Laura Drive  
Phone: (630) 628-6100  
Fax: (630) 628-0023  
  
Woodridge 60517 (Chicago)  
2033 West 75th Street  
Phone: (630) 910-9200  
Fax: (630) 910-0360

### MARYLAND

Elkridge 21075 (Baltimore)  
7397-102 Washington Blvd.  
Phone: (410) 799-9394  
Fax: (410) 799-9398

### MASSACHUSETTS

Braintree 02185 (Boston)  
719 Granite Street  
Phone: (781) 848-9810  
Fax: (781) 848-6759  
  
Franklin 02038 (Boston)  
Franklin Industrial Park  
101E Constitution Blvd.  
Phone: (508) 520-8802  
Fax: (508) 528-8089

### MICHIGAN

Madison Heights 48071 (Detroit)  
30475 Stephenson Highway  
Phone: (248) 597-5000  
Fax: (248) 597-5004

### MINNESOTA

Minneapolis 55429  
5522 Lakeland Avenue North  
Phone: (763) 561-9080  
Fax: (763) 561-0653

### MISSOURI

North Kansas City 64116  
1141 Swift Avenue  
P.O. Box 12393  
Phone: (816) 221-2070  
Fax: (816) 221-2897  
  
St. Louis 63119  
7574 Watson Road  
Phone: (314) 968-8950  
Fax: (314) 968-2790

### NEW YORK

Flushing 11365-1595 (N.Y.C.)  
175-25 Horace Harding Expwy.  
Phone: (718) 225-2040  
Fax: (718) 423-9619

### NORTH CAROLINA

Charlotte 28270  
9129 Monroe Road, Suite 115  
Phone: (704) 841-1176  
Fax: (704) 708-4625

### OHIO

Columbus 43214  
4560 Indianola Avenue  
Phone: (614) 263-0929  
Fax: (614) 263-1238

Cleveland 44125  
8001 Sweet Valley Drive  
Unit #19  
Phone: (216) 447-9030  
Fax: (216) 447-3097

### OREGON

Portland 97230  
4916 NE 122 nd Ave.  
Phone: (503) 252-0107  
Fax: (503) 252-2123

### PENNSYLVANIA

Willow Grove 19090  
520 North York Road  
Phone: (215) 658-1430  
Fax: (215) 658-1433

### TEXAS

Carrollton 75006 (Dallas)  
1300 Interstate 35 N, Suite 112  
Phone: (972) 446-2996  
Fax: (972) 446-8157

Houston 77055  
West 10 Business Center  
1008 Wirt Road, Suite 120  
Phone: (713) 682-0334  
Fax: (713) 682-4867

### WASHINGTON

Auburn 98001(Seattle)  
3320 West Valley HWY, North  
Building D, Suite 111  
Phone: (253) 333-8353  
Fax: (253) 333-9613

Authorized Service Stations are located in many large cities. Telephone **800-438-2486** or **731-541-6042** for assistance locating one. Parts and accessories for Porter-Cable -Delta products should be obtained by contacting any Porter-Cable-Delta Distributor, Authorized Service Center, or Porter-Cable-Delta Factory Service Center. If you do not have access to any of these, call **800-223-7278** and you will be directed to the nearest Porter-Cable-Delta Factory Service Center. Las Estaciones de Servicio Autorizadas están ubicadas en muchas grandes ciudades. Llame al **800-438-2486** ó al **731-541-6042** para obtener asistencia a fin de localizar una. Las piezas y los accesorios para los productos Porter-Cable-Delta deben obtenerse poniéndose en contacto con cualquier distribuidor Porter-Cable-Delta, Centro de Servicio Autorizado o Centro de Servicio de Fábrica Porter-Cable-Delta. Si no tiene acceso a ninguna de estas opciones, llame al **800-223-7278** y le dirigirán al Centro de Servicio de Fábrica Porter-Cable-Delta más cercano.

## CANADIAN PORTER-CABLE • DELTA SERVICE CENTERS

### ALBERTA

Bay 6, 2520-23rd St. N.E.  
Calgary, Alberta  
T2E 8L2  
Phone: (403) 735-6166  
Fax: (403) 735-6144

### BRITISH COLUMBIA

8520 Baxter Place  
Burnaby, B.C.  
V5A 4T8  
Phone: (604) 420-0102  
Fax: (604) 420-3522

### MANITOBA

1699 Dublin Avenue  
Winnipeg, Manitoba  
R3H 0H2  
Phone: (204) 633-9259  
Fax: (204) 632-1976

### ONTARIO

505 Southgate Drive  
Guelph, Ontario  
N1H 6M7  
Phone: (519) 836-2840  
Fax: (519) 767-4131

### QUÉBEC

1515 Ave.  
St-Jean Baptiste,  
Québec, Québec  
G2E 5E2  
Phone: (418) 877-7112  
Fax: (418) 877-7123

1447, Begin  
St-Laurent, (Montréal),  
Québec  
H4R 1V8  
Phone: (514) 336-8772  
Fax: (514) 336-3505

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